L Number	Hits	Search Text	DB	Time stamp
1	9882	shaft with furnace	USPAT;	2003/03/15
1	9002	Shale with furnace	US-PGPUB;	16:30
			EPO; JPO;	1 - 3133
			DERWENT	
	200704		USPAT;	2003/03/15
2	728794	rectangular		16:30
			US-PGPUB;	16:30
			EPO; JPO;	ŀ
			DERWENT	
3	524	(shaft with furnace) and rectangular	USPAT;	2003/03/15
			US-PGPUB;	16:30
			EPO; JPO;	
			DERWENT	
4	1028167	cross with section	USPAT;	2003/03/15
			US-PGPUB;	16:31
			EPO; JPO;	
			DERWENT	
ا د	328	((shaft with furnace) and rectangular)	USPAT;	2003/03/15
5	320		US-PGPUB;	16:32
		and (cross with section)	1	16.32
		·	EPO; JPO;	1
	_	1	DERWENT	0000 (00 (00
6	26023	266/\$.ccls.	USPAT;	2003/03/15
			US-PGPUB;	16:32
1			EPO; JPO;	
			DERWENT	į i
7	36152	75/\$.ccls.	USPAT;	2003/03/15
'			US-PGPUB;	16:33
			EPO; JPO;	-
			DERWENT	
8	58143	266/\$.ccls. or 75/\$.ccls.	USPAT;	2003/03/15
°	20142	200/3.0013. 01 /3/3.0013.	US-PGPUB;	16:33
1			1	10.55
			EPO; JPO;	
			DERWENT	0000/00/15
9	97	(((shaft with furnace) and rectangular)	USPAT;	2003/03/15
		and (cross with section)) and	US-PGPUB;	16:33
1		(266/\$.ccls. or 75/\$.ccls.)	EPO; JPO;	
			DERWENT	
10	277098	metal with oxide	USPAT;	2003/03/15
			US-PGPUB;	16:34
			EPO; JPO;	
	i		DERWENT	
11	15079	iron with ore	USPAT;	2003/03/15
			US-PGPUB;	16:34
			EPO; JPO;	]
			DERWENT	
12	290655	(metal with oxide) or (iron with ore)	USPAT;	2003/03/15
12	2,0000	(model with outgo) of (fight with ofe)	US-PGPUB;	16:34
	1		EPO; JPO;	10.01
			DERWENT	1
113	26725	1:4	1	2003/03/15
13	36735	solid with fuel	USPAT;	1
			US-PGPUB;	16:35
1			EPO; JPO;	]
1			DERWENT	
14	60374	coke	USPAT;	2003/03/15
			US-PGPUB;	16:35
1			EPO; JPO;	1
	1		DERWENT	
15	121507	coal	USPAT;	2003/03/15
			US-PGPUB;	16:35
	]		EPO; JPO;	1
	1		DERWENT	
16	15079	iron with ore	USPAT;	2003/03/15
10	13079	TION WICH OLG	US-PGPUB;	16:36
1				13.30
			EPO; JPO;	
1.5			DERWENT	2002 (22 /25
17	190684	(solid with fuel) or coke or coal	USPAT;	2003/03/15
			US-PGPUB;	16:37
			EPO; JPO;	]
			DERWENT	
	L		DERWENT	1

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18	34	(((shaft with furnace) and rectangular)	USPAT;	2003/03/15
1		and (cross with section)) and	US-PGPUB;	16:59
		(266/\$.ccls. or 75/\$.ccls.) and ((metal	EPO; JPO;	
		with oxide) or (iron with ore)) and	DERWENT	
		((solid with fuel) or coke or coal)		
19	93	1 ' ' ' .	USPAT;	2003/03/15
		·	US-PGPUB;	17:01
1			EPO; JPO;	
1			DERWENT	
20	2	rectangular and 75/490.ccls.	USPAT;	2003/03/15
			US-PGPUB;	17:04
			EPO; JPO;	
İ			DERWENT	

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PGPUB-DOCUMENT-NUMBER: 20030000343

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030000343 A1

TITLE: Equipment for distribution and feeding of charge

and fuel in shaft

furnaces of rectangular cross section

PUBLICATION-DATE: January 2, 2003

INVENTOR-INFORMATION:

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COUNTRY RULE-47

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APPL-NO: 09/ 892654

DATE FILED: June 28, 2001

INT-CL: [07], C22B001/214, C21B011/02

US-CL-PUBLISHED: 75/488, 266/197

US-CL-CURRENT: 75/488, 266/197

REFERENCE-FIGURES: 1

## ABSTRACT:

The present invention refers to an equipment for feeding and distributing

charge and fuel in furnaces of rectangular cross section, comprising movable

feeding tubes to distribute along the longitudinal section and the cross

section of the furnace, both a charge comprised of self-reducing agglomerates,

ore, scrap or any other metallic material, and solid fuels of any kind.

L Number	Hits	Search Text	DB	Time stamp
1	9882	shaft with furnace	USPAT;	2003/03/15
1			US-PGPUB;	16:30
			EPO; JPO;	ļ
			DERWENT	
2	728794	rectangular	USPAT;	2003/03/15
~			US-PGPUB;	16:30
			EPO; JPO;	
			DERWENT	
3	524	(shaft with furnace) and rectangular	USPAT;	2003/03/15
		,	US-PGPUB;	16:30
			EPO; JPO;	
			DERWENT	
4	1028167	cross with section	USPAT;	2003/03/15
			US-PGPUB;	16:31
			EPO; JPO;	
			DERWENT	
5	328	((shaft with furnace) and rectangular)	USPAT;	2003/03/15
j		and (cross with section)	US-PGPUB;	16:32
			EPO; JPO;	
		•	DERWENT	
6	26023	266/\$.ccls.	USPAT;	2003/03/15
			US-PGPUB;	16:32
			EPO; JPO;	
			DERWENT	0000/00/15
7	36152	75/\$.ccls.	USPAT;	2003/03/15
			US-PGPUB;	16:33
			EPO; JPO;	
		255/4 3 75/4 3	DERWENT	2002/02/15
8	58143	266/\$.ccls. or 75/\$.ccls.	USPAT;	2003/03/15
			US-PGPUB;	16:33
			EPO; JPO;	
	97	///shafe with firmage) and machangulan)	DERWENT	2003/03/15
9	97	, , , ,	USPAT; US-PGPUB;	16:33
1		and (cross with section)) and (266/\$.ccls. or 75/\$.ccls.)	EPO; JPO;	10.33
		(2007).0015. 01 7575.0015.)	DERWENT	j
10	277098	metal with oxide	USPAT;	2003/03/15
10	277050	metal with oxide	US-PGPUB;	16:34
			EPO; JPO;	
	}		DERWENT	
11	15079	iron with ore	USPAT;	2003/03/15
			US-PGPUB;	16:34
			EPO; JPO;	
			DERWENT	
12	290655	(metal with oxide) or (iron with ore)	USPAT;	2003/03/15
	İ		US-PGPUB;	16:34
			EPO; JPO;	
			DERWENT	
13	36735	solid with fuel	USPAT;	2003/03/15
			US-PGPUB;	16:35
			EPO; JPO;	
			DERWENT	0000/00/55
14	60374	coke	USPAT;	2003/03/15
			US-PGPUB;	16:35
			EPO; JPO;	
1.5	101507		DERWENT	2002/02/15
15	121507	coal	USPAT;	2003/03/15 16:35
1			US-PGPUB; EPO; JPO;	10.33
1			DERWENT	
16	15079	iron with ore	USPAT;	2003/03/15
1 10	130/9	TION WICH OLE	US-PGPUB;	16:36
			EPO; JPO;	10.00
			DERWENT	
17	190684	(solid with fuel) or coke or coal	USPAT;	2003/03/15
1'	150004	Contract   Contract	US-PGPUB;	16:37
			EPO; JPO;	
1			DERWENT	
L	<u> </u>	I	1	·

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18	34	(((shaft with furnace) and rectangular)	USPAT;	2003/03/15
		and (cross with section)) and	US-PGPUB;	16:59
		(266/\$.ccls. or 75/\$.ccls.) and ((metal	EPO; JPO;	
		with oxide) or (iron with ore)) and	DERWENT	
		((solid with fuel) or coke or coal)		
19	93	1 ' '	USPAT;	2003/03/15
			US-PGPUB;	17:01
			EPO; JPO;	
			DERWENT	
20	2	rectangular and 75/490.ccls.	USPAT;	2003/03/15
	_	,	US-PGPUB;	17:04
			EPO; JPO;	
			DERWENT	1
l 21	0	(rectangular and 75/490.ccls.) and	USPAT;	2003/03/15
	•	((solid with fuel) or coke or coal)	US-PGPUB;	17:05
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	EPO; JPO;	1
1			DERWENT	†

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